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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,173		10/01/2003	Michael Hugh Quinn	CL/V-32421	6787
1095	7590	04/29/2005		EXAMINER	
NOVART		CLIECTUAL DDOD	HUANG, MEI QI		
CORPORATE INTELLECTUAL PROPERTY ONE HEALTH PLAZA 104/3			ERII	ART UNIT	PAPER NUMBER
EAST HA	NOVER,	NJ 07936-1080		1713	
				DATE MAILED: 04/29/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)		+ ^				
		10/676,173	QUINN ET AL.						
Office Action Summary		Examiner	Art Unit						
		Mei Q. Huang	1713	<u> </u>					
Period fo	The MAILING DATE of this communication or Reply	n appears on the cover sheet v	vith the correspondence a	ddress	l				
THE I - Exter after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR RIMAILING DATE OF THIS COMMUNICATION IN THE PROVISION OF THIS COMMUNICATION IN THE PROVISION OF	ON. FR 1.136(a). In no event, however, may a on. a reply within the statutory minimum of the critical will apply and will expire SIX (6) MC statute, cause the application to become a	reply be timety filed irty (30) days will be considered tim NTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).	ely. communication.					
Status									
1)⊠	Responsive to communication(s) filed on	01 October 2003.							
• —	<i>,</i> —	This action is non-final.	•						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	ion of Claims								
4)□ 5)□ 6)⊠ 7)□	Claim(s) <u>1-46</u> is/are pending in the applicated of the above claim(s) <u>5,6 and 10-46</u> is Claim(s) is/are allowed. Claim(s) <u>1-4 and 7-9</u> is/are rejected. Claim(s) is/are objected to. Claim(s) <u>1-46</u> are subject to restriction and	a/are withdrawn from consider	ration.						
Applicat	ion Papers								
10)	The specification is objected to by the Exa The drawing(s) filed on is/are: a) Applicant may not request that any objection t Replacement drawing sheet(s) including the c The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abey orrection is required if the drawir	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 (,				
Priority (under 35 U.S.C. § 119								
a)	Acknowledgment is made of a claim for fo All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International B	ments have been received. ments have been received in e priority documents have bee ureau (PCT Rule 17.2(a)).	Application No In received in this National	al Stage					
2) Notice 3) Infor	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO-1449 or PTO/S er No(s)/Mail Date <u>08/23/2004</u> .	Paper N	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (P 	TO-152)					

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DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-15, drawn to a polymerizable composition, classified in class525, subclass 61.
- II. Claims 16-46, drawn to an article made from the polymerizable composition and a method of making the article, classified in class 264, subclass 1+,

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are related as mutually exclusive species in an intermediate-final product relationship. Distinctness is proven for claims in this relationship if the intermediate product is useful to make other than the final product (MPEP § 806.04(b), 3rd paragraph), and the species are patentably distinct (MPEP § 806.04(h)). In the instant case, the intermediate product is deemed to be useful as a component of adhesives and the inventions are deemed patentably distinct since there is nothing on this record to show them to be obvious variants. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions anticipated by the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

- 4. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.
- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- This application contains claims directed to the following patentably distinct species of the claimed invention, if Group I is elected: Various PVA's as represented by formula I, I and II, I and III or I and II and III described in Claim 3. Various modifiers, Modifier (i), nanoparticles having a hydrophilic surface as described in Claims 1 and 5-6 and Modifier (ii), a copolymer having hydrophobic groups and hydrophilic groups as described in Claims 1, 7-15.

If Modifier (ii) is elected, a further election of species requirement is as following:

Elect one species of modifier from

Modifier (iia), a N-vinyl lactam copolymer hydrophobic monomer as described in Claims 8-9; or

Modifier (iib), a N, N-dialkylmethacrylamide copolymer as described in Claims 10-11; or Modifier (iic1), a non-crosslinkable polyurethane as described in Claims 12-15; or Modifier (iic2), a crosslinkable polyurethane as described in Claims 12-15.

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Applicant is required under 35 U.S.C. 121 to elect a single disclosed species from various PVA's and various modifiers for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, Claims 1-31 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

7. During a telephone conversation with Attorney, Mr. Jian Zhou on April 11, 2005 a provisional election was made without traverse to prosecute the invention of Group I,

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Claims 1-15, wherein the elected species are the PVA represented by formula I and Modifier (iia), N-vinyl lactam copolymer modifier. Affirmation of this election must be made by applicant in replying to this Office action. Claims 5-6, 10-46 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 112

- 9. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 10. Claim 8 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 8 recites the limitation "R₁₉ is ... R₂₀ is ... R₂₁ is ..." in line 14-16. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

11. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

12. Claims 1-4 and 7-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Műller (US Pat. 6,303,687).

The prior art to Müller relates to novel water-soluble crosslinkable polymers, in particular derivatives of a polyvinyl alcohol, which can be used to make contact lenses (Abstract). Müller further teaches the use of modifier units (column 5, line 52-54). The notion of using a hydrophobic vinylic comonomer or a mixture of a hydrophobic vinylic comonomer and a hydrophilic vinylic comonomer (modifier system) allowing the mechanical properties of the photocrosslinked polymer to be improved is expressly disclosed at column 14, line 10-15. Such mechanical properties are identified as freedom from stresses and tear strength at column 15, line 43-44, which appears to read on the instant claim 2.

As to Claims 3-4, Műlle's teaching of a derivative of a polyvinyl alcohol having a general formula of (I) at column 2, line 31-55, meets the elected PVA having formula (I) in the instant claim 3. The derivative of the polyvinyl alcohol having a molecular weight of at least about 2,000 which comprises from about 0.5 to about 80%, based on the number of hydroxyl groups in the polyvinyl alcohol, of units of the formula I is disclosed in Műlle's claim 1, column 24, claim 1. Műller also teaches that the radical R₂ of his formula I is a radical of the formula II at column 2, line 60, which meets the instantly claimed formula (IV) in Claim 4.

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As to Claims 7-9, employing a small proportion of vinylpyrrolidone can be seen at

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column 11, line 1-7 and line 30.

In sum, all the limitations of Claims 1-4 and 7-9 are fully met by Mülle's

disclosure.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Mei Q. Huang whose telephone number is (571) 272-

3549. The examiner can normally be reached on 8am - 4pm, Mon. - Fri...

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor. David Wu can be reached on (571) 272-1114. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

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Business Center (EBC) at 866-217-9197 (toll-free).

Mei Q. Huang

Examiner

April 26, 2005

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DAVID W. WU UPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700